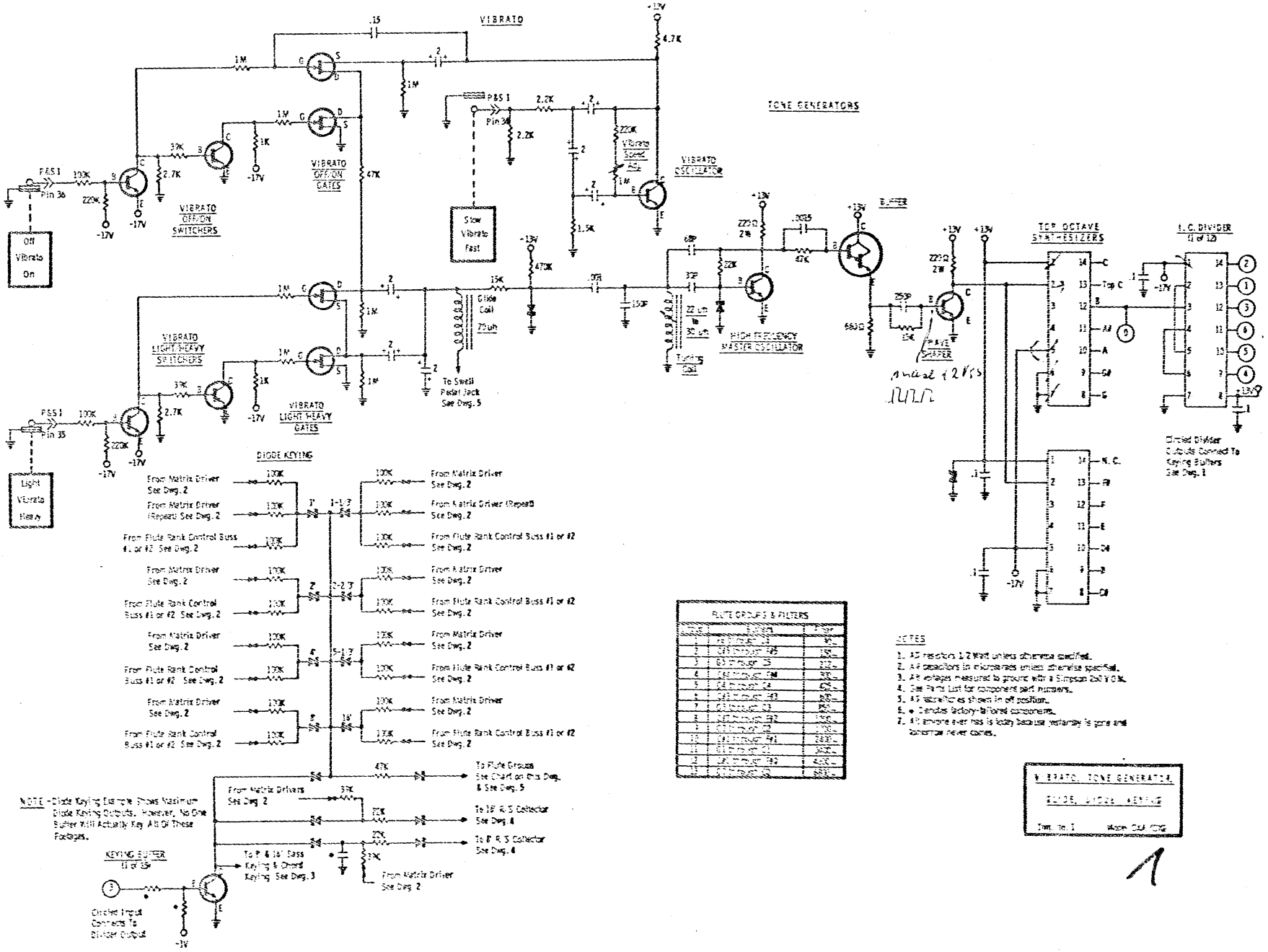
CORDOVOX
MODEL CXA/CXG



FLUTE GROUPS & FILTERS	

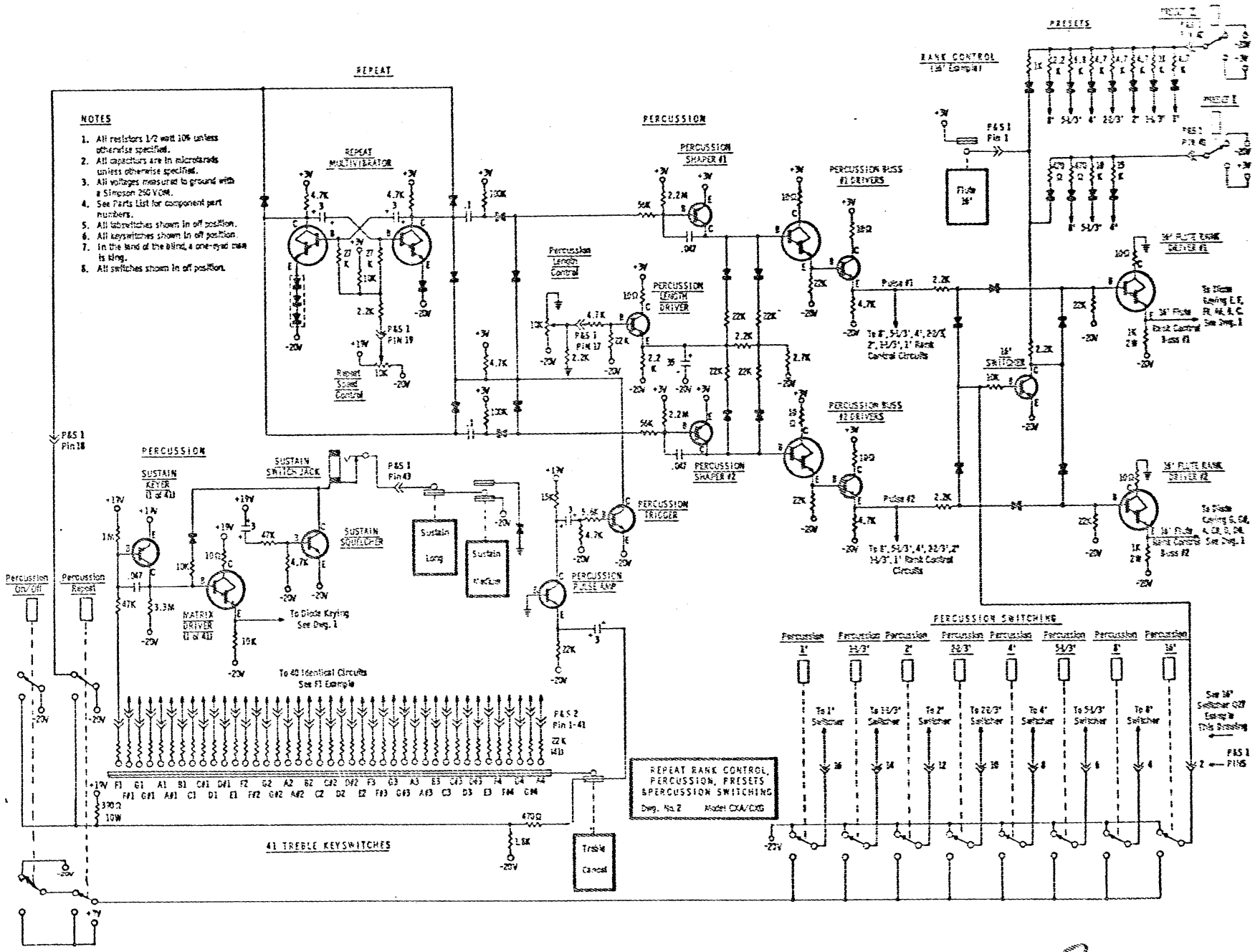
NOTES

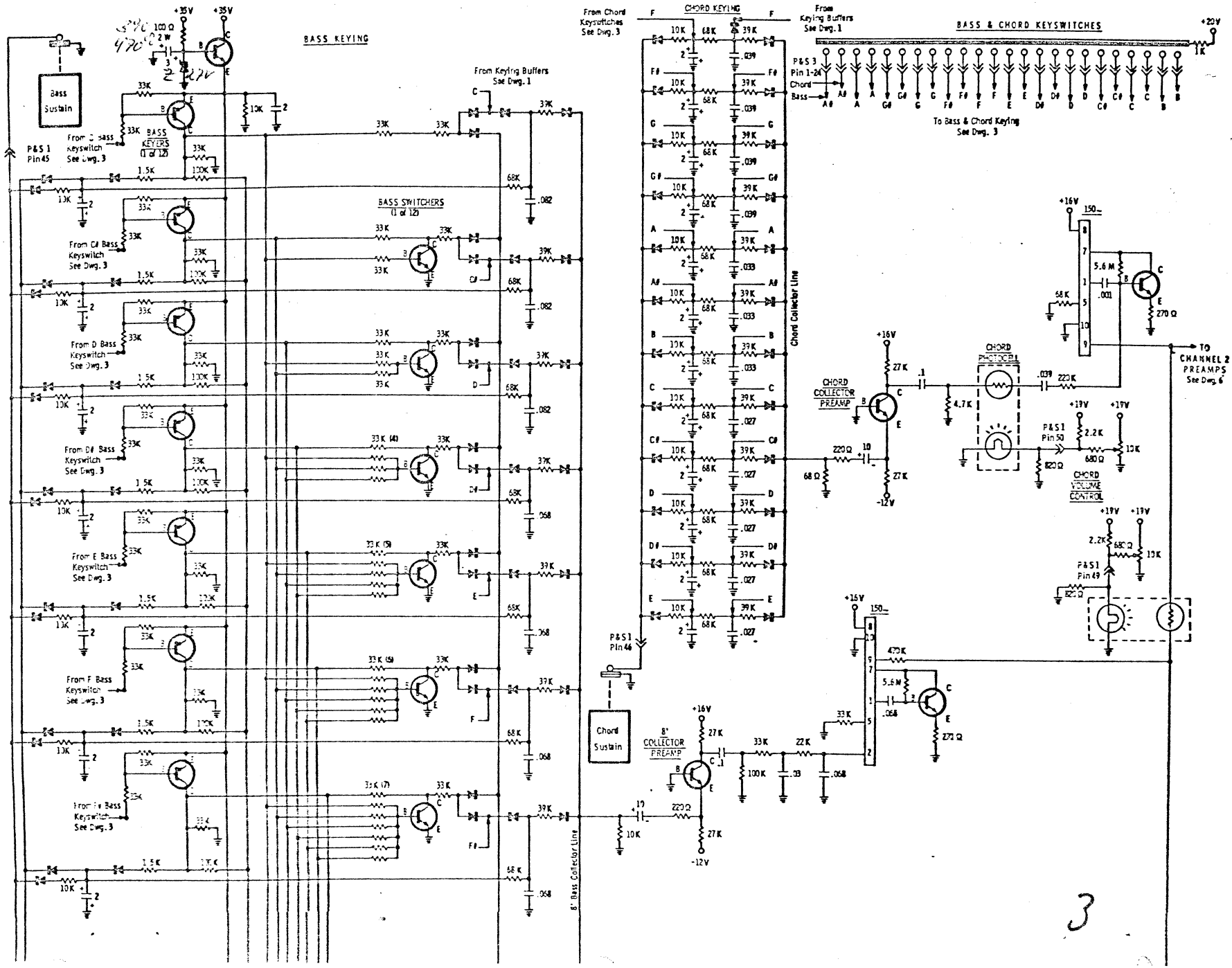
1. All resistors 1/2 Watt unless otherwise specified.
2. All capacitors in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 V.O.M.
4. See Parts List for component part numbers.
5. All switches as shown in off position.
6. ● Denotes factory-selected components.
7. If anyone ever has to solder because mechanical is gone and tomorrow never comes.

VIBRATO, TONE GENERATOR, FLUTE, DIODE KEYING

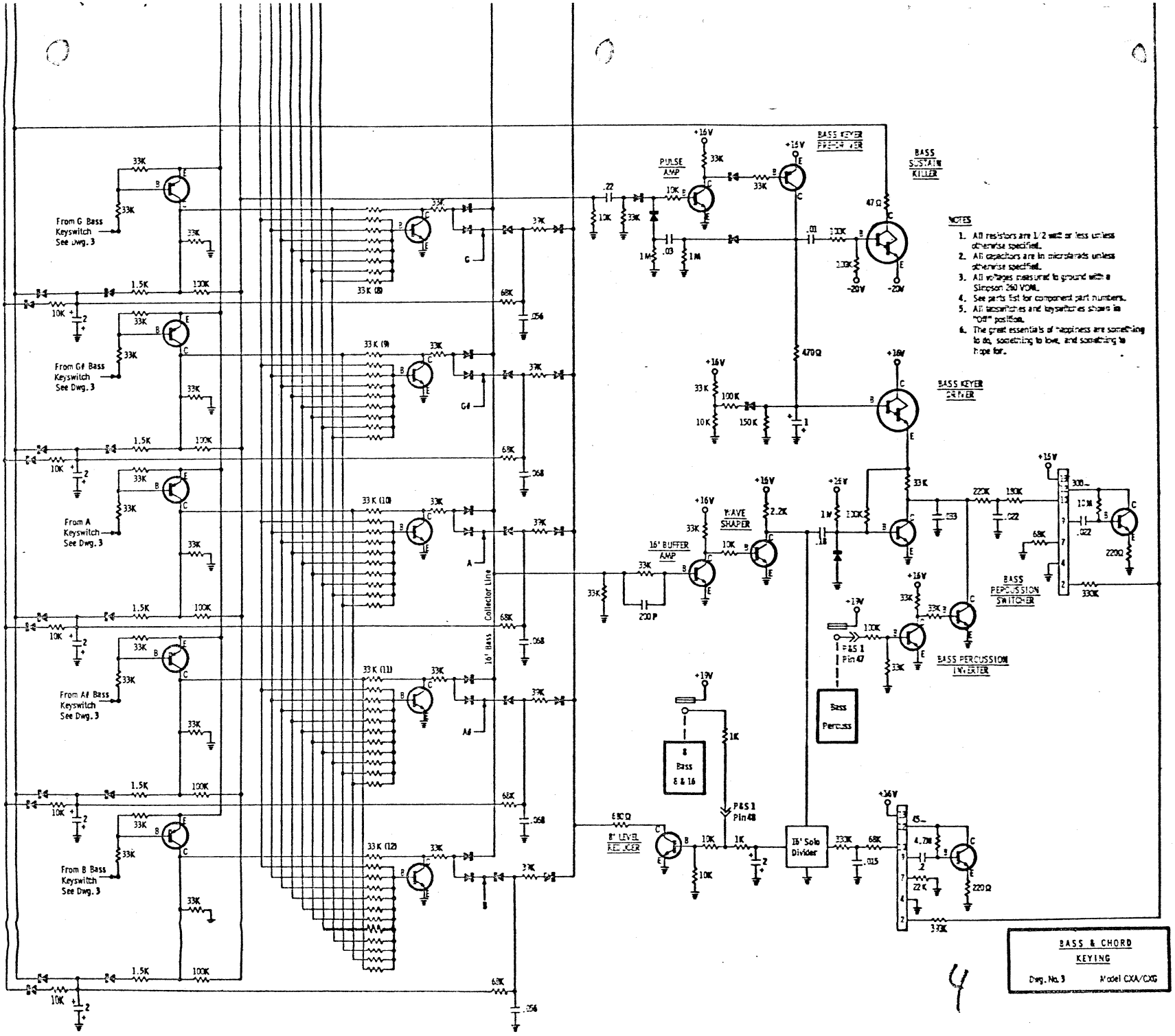
Dwg. No. 1 Wicks Organ Co.

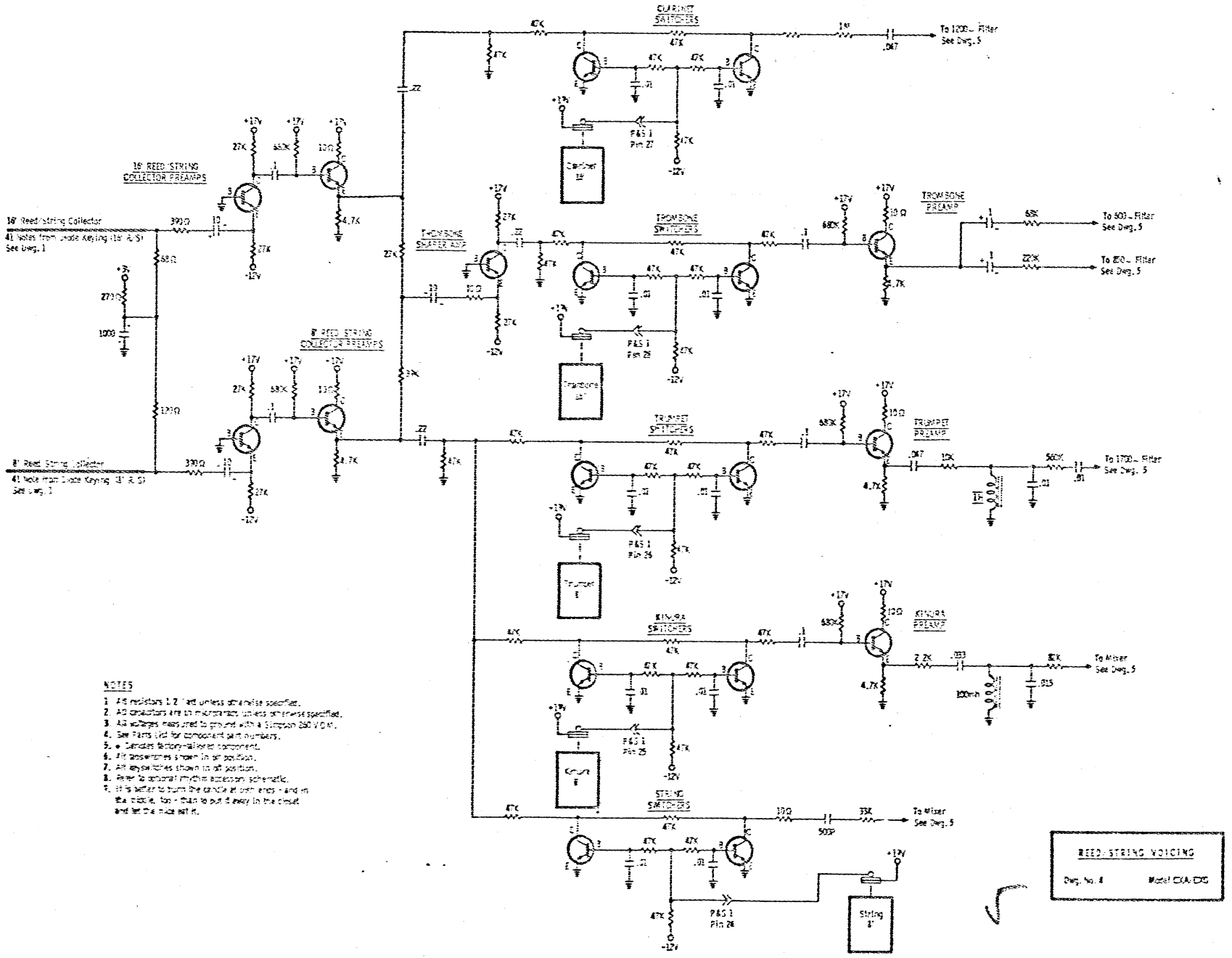
1


NOTES
1. All resistors 1/2 watt 10% unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. See Parts List for component part numbers.
5. All tabswitches shown in off position.
6. All keyswitches shown in off position.
7. In the land of the blind, a one-eyed man is king.
8. All switches shown in off position.
REPEAT
REPEAT MULTIVIBRATOR
Repeat Speed Control
PERCUSSION
PERCUSSION SHAPER #1
PERCUSSION SHAPER #2
Percussion Length Control
PERCUSSION LENGTH DRIVER
PERCUSSION BUSS #1 DRIVERS
PERCUSSION BUSS #2 DRIVERS
PERCUSSION TRIGGER
PERCUSSION PULSE AMP
PRESETS
RANK CONTROL
16' Example
Flute 16'
16' SWITCHER
16' FLUTE RANK SWITCH #1
16' FLUTE RANK SWITCH #2
P&S 1 Pin 1
P&S 1 Pin 18
P&S 1 Pin 43
P&S 1 Pin 17
P&S 2 Pin 1-41
SUSTAIN KEYER (1 of 41)
SUSTAIN SWITCH JACK
SUSTAIN SQUELCHER
Sustain Long
Sustain Medium
MATRIX DRIVER (1 of 41)
To Diode Keying See Dwg. 1
To 40 Identical Circuits See F1 Example
Percussion On/Off
Percussion Repeat
PERCUSSION SWITCHING
Percussion 1'
Percussion 1 1/3'
Percussion 2'
Percussion 2 2/3'
Percussion 4'
Percussion 5 1/3'
Percussion 8'
Percussion 16'
To 1' Switcher
To 1 1/3' Switcher
To 2' Switcher
To 2 2/3' Switcher
To 4' Switcher
To 5 1/3' Switcher
To 8' Switcher
41 TREBLE KEYSWITCHES
Treble Cancel
REPEAT RANK CONTROL PERCUSSION, PRESETS PERCUSSION SWITCHING
Dwg. No. 2 Model CXA/CXG


BASS KEYING
CHORD KEYING
BASS & CHORD KEYSWITCHES
Bass Sustain
Chord Sustain
BASS KEYERS (1 of 12)
BASS SWITCHERS (1 of 12)
From Keying Buffers See Dwg. 1
From Chord Keyswitches See Dwg. 3
To Bass & Chord Keying See Dwg. 3
Chord Collector Line
8' Bass Collector Line
CHORD COLLECTOR PREAMP
8' COLLECTOR PREAMP
CHORD PHOTOCELL
CHORD VOLUME CONTROL
TO CHANNEL 2 PREAMPS See Dwg. 6
P&S 1 Pin 45
P&S 1 Pin 46
P&S 1 Pin 49
P&S 1 Pin 50
P&S 3 Pin 1-24
Chord
Bass
+35V
+16V
+19V
-12V
+22V
From C Bass Keyswitch See Dwg. 3
From C# Bass Keyswitch See Dwg. 3
From D Bass Keyswitch See Dwg. 3
From D# Bass Keyswitch See Dwg. 3
From E Bass Keyswitch See Dwg. 3
From F Bass Keyswitch See Dwg. 3
From F# Bass Keyswitch See Dwg. 3

3


From G Bass Keyswitch See Dwg. 3
From G# Bass Keyswitch See Dwg. 3
From A Keyswitch See Dwg. 3
From A# Bass Keyswitch See Dwg. 3
From B Bass Keyswitch See Dwg. 3
Collector Line
16' Bass
PULSE AMP
BASS KEYER PREDRIVER
BASS SUSTAIN KILLER
BASS KEYER DRIVER
WAVE SHAPER
16' BUFFER AMP
BASS PERCUSSION SWITCHER
BASS PERCUSSION INVERTER
B' LEVEL REDUCER
16' Solo Divider
P&S 1 Pin 47
P&S 1 Pin 48
Bass Percuss
B Bass 8 & 16
NOTES
1. All resistors are 1/2 watt or less unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. See parts list for component part numbers.
5. All tabswitches and keyswitches shown in "Off" position.
6. The great essentials of happiness are something to do, something to love, and something to hope for.
BASS & CHORD KEYING
Dwg. No. 3
Model CXA/CXG

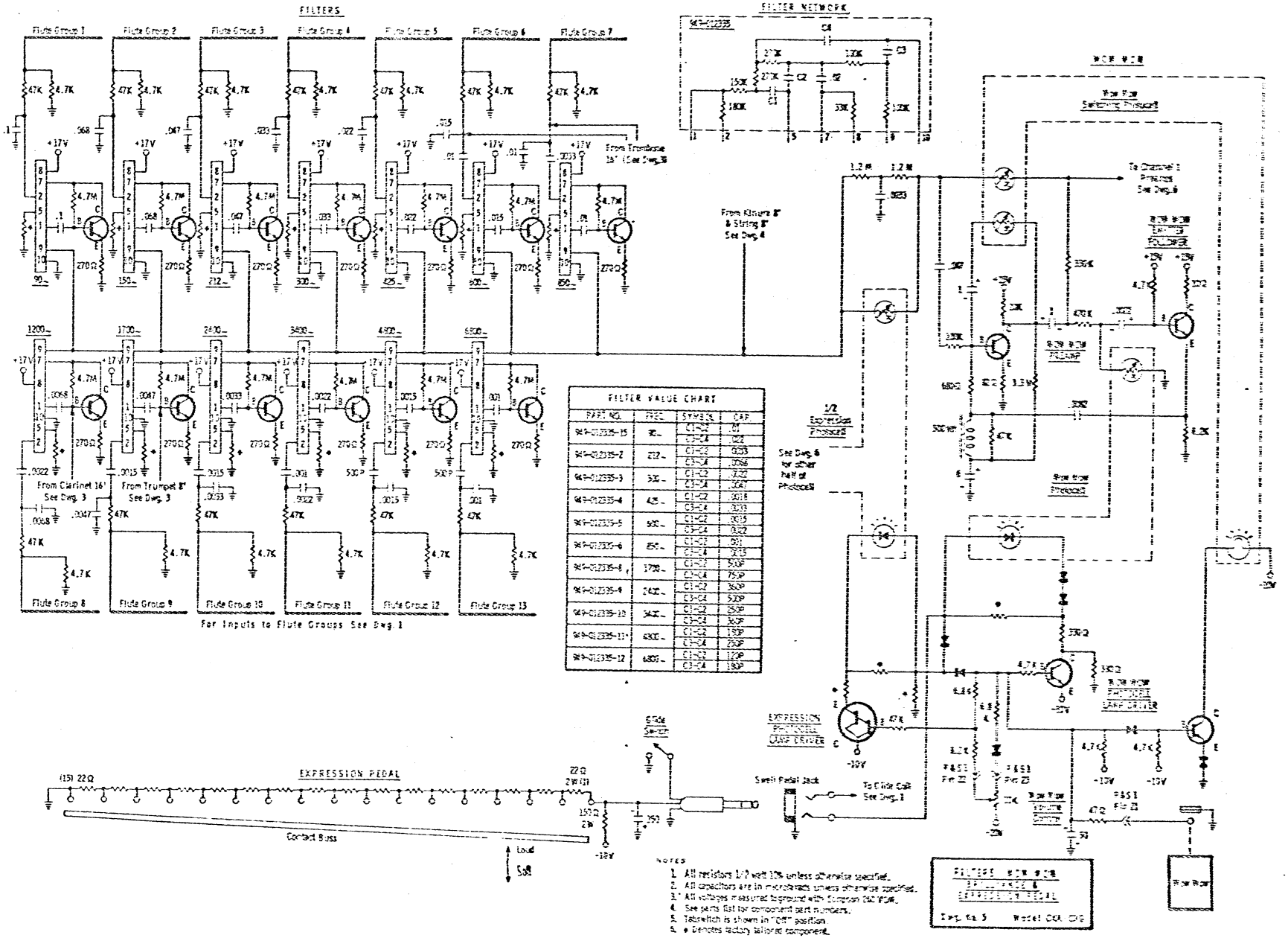


NOTES

1. All resistors 1/2 watt unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. See Parts List for component part numbers.
5. ● Denotes factory-selected component.
6. All potentiometers shown in ccw position.
7. All keyswitches shown in off position.
8. Refer to optional rhythm accession schematic.
9. It is better to trim the circuit at both ends - and in the middle, too - than to put it away in the circuit and let the mice eat it.

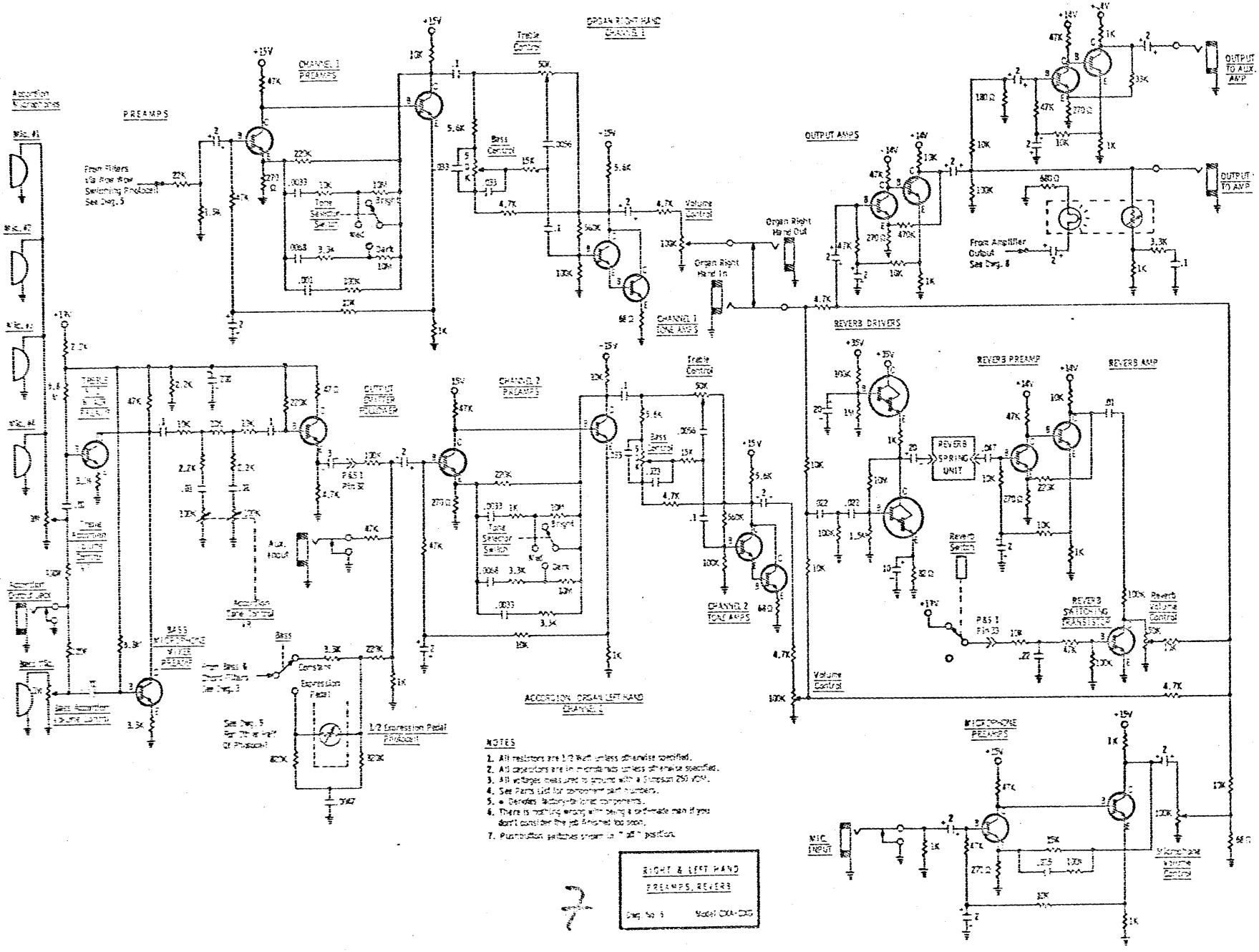
REED STRING VOICING

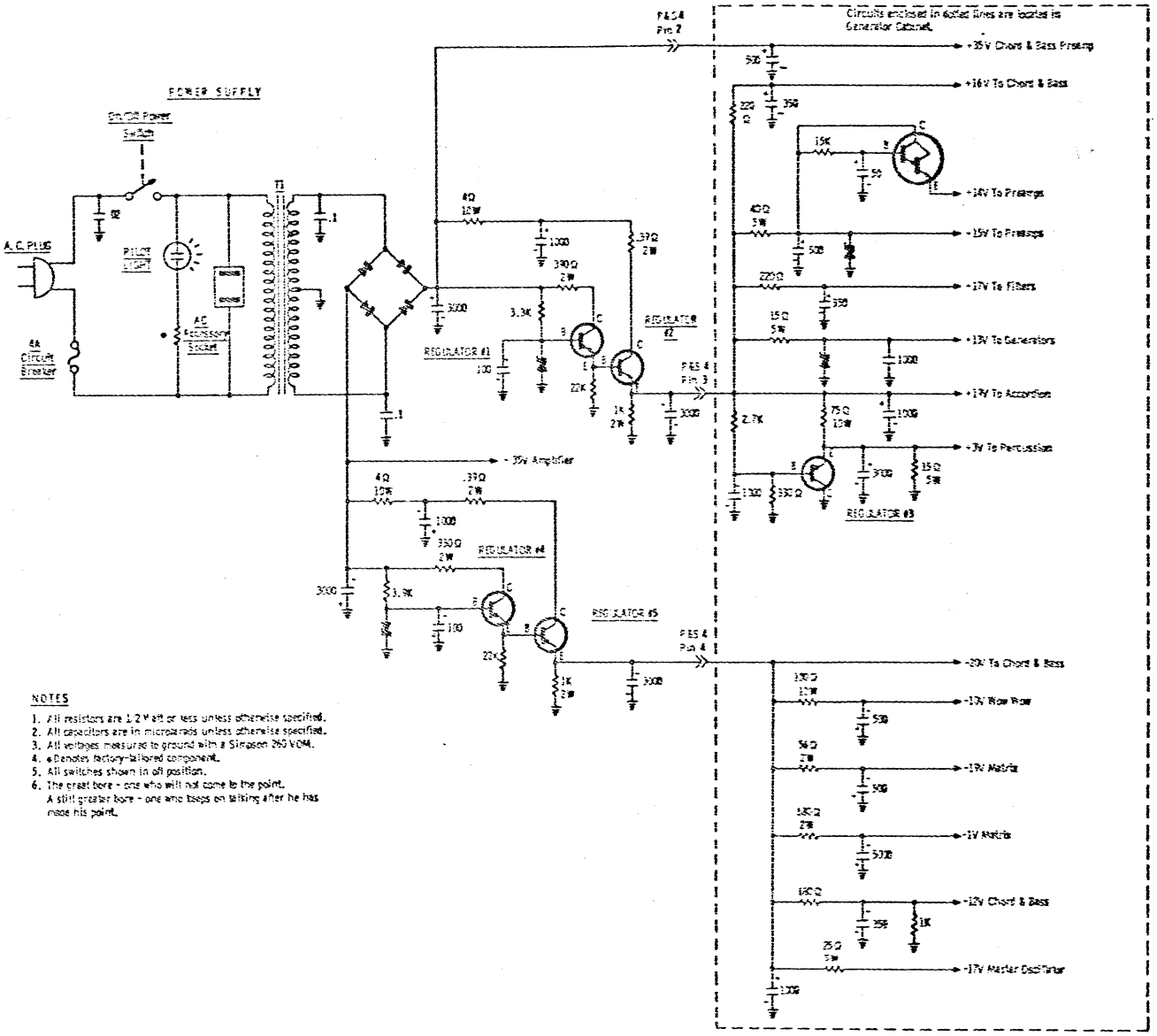
Dwg. No. 8 Model CK4/CK5



FILTER VALUE CHART			
PART NO.	FREQ.	SYMBOL	CAP.
969-012335-15	90	C1-C2	.1
		C3-C4	.068
969-012335-2	212	C1-C2	.0033
		C3-C4	.0068
969-012335-3	330	C1-C2	.0022
		C3-C4	.0047
969-012335-4	425	C1-C2	.0018
		C3-C4	.0039
969-012335-5	600	C1-C2	.0015
		C3-C4	.0022
969-012335-6	850	C1-C2	.001
		C3-C4	.0015
969-012335-8	1700	C1-C2	500P
		C3-C4	750P
969-012335-9	2400	C1-C2	360P
		C3-C4	510P
969-012335-10	3400	C1-C2	250P
		C3-C4	360P
969-012335-11*	4800	C1-C2	180P
		C3-C4	250P
969-012335-12	6800	C1-C2	120P
		C3-C4	180P

NOTES
1. All resistors 1/2 watt 10% unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with Simpson 260 VOM.
4. See parts list for component part numbers.
5. Tabswitch is shown in "OFF" position.
6. * Denotes factory tailored component.


PREAMPS
CHANNEL 1 PREAMPS
CHANNEL 2 PREAMPS
ACCORDION ORGAN LEFT HAND CHANNEL 2
ORGAN RIGHT HAND CHANNEL 1
CHANNEL 1 TONE AMPS
CHANNEL 2 TONE AMPS
OUTPUT AMPS
REVERB DRIVERS
REVERB PREAMP
REVERB AMP
REVERB SPRING UNIT
REVERB SWITCHING TRANSISTOR
MICROPHONE PREAMPS
OUTPUT TO AUX. AMP
OUTPUT TO AMP
From Amplifier Output See Dwg. 8
Organ Right Hand Out
Organ Right Hand In
Treble Control
Bass Control
Volume Control
Tone Selector Switch
Reverb Switch
Reverb Volume Control
Expression Pedal
1/2 Expression Pedal Potentiometer
MIC. INPUT
NOTES
2. All resistors are 1/2 Watt unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. See Parts List for component part numbers.
5. ∗ Denotes factory-selected components.
6. There is nothing simply wrong with being a craftsman if you don't consider the job finished too soon.
7. Push-button switches shown in " off " position.
RIGHT & LEFT HAND PREAMPS, REVERB
Dwg. No. 6
Model CKA-205



NOTES

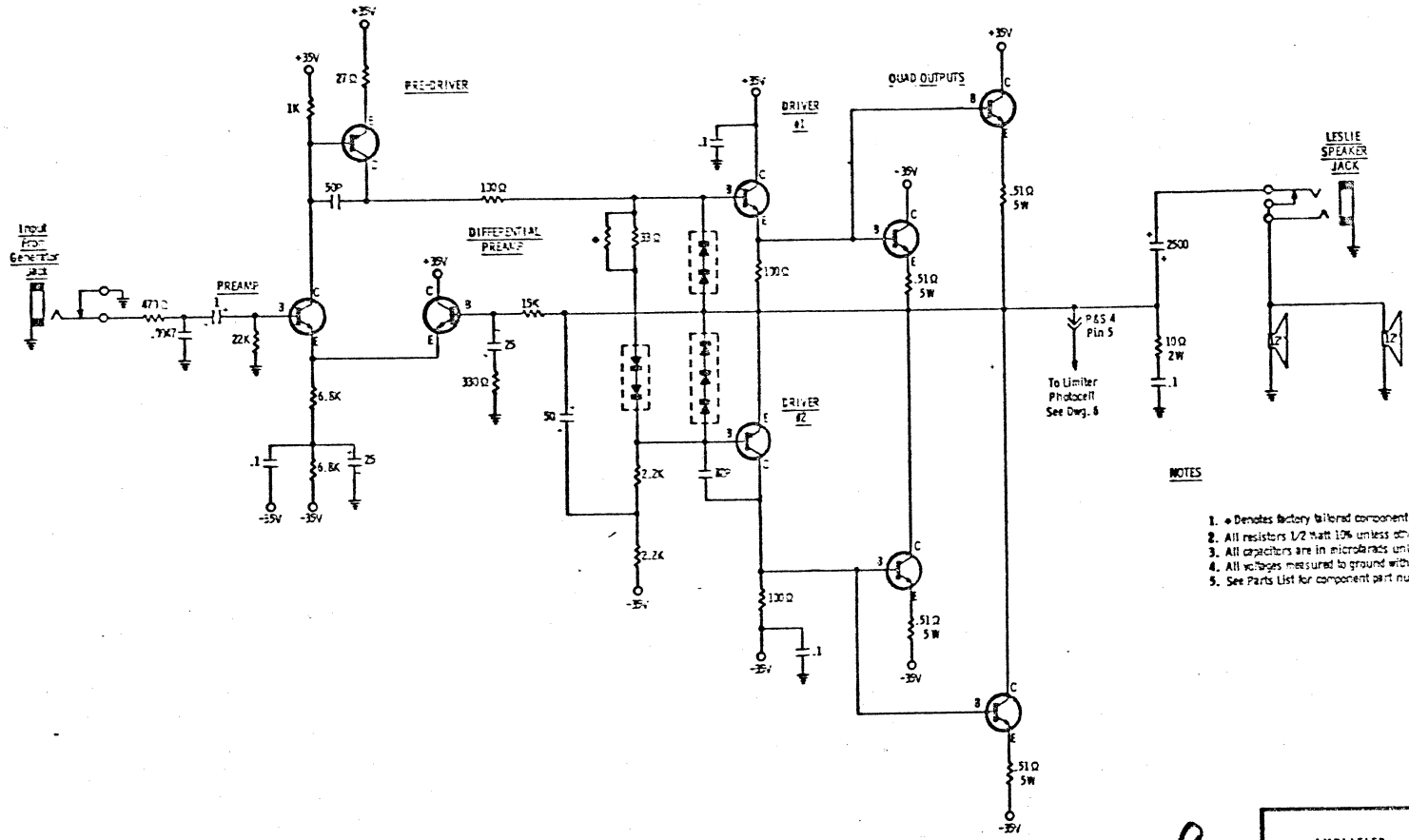
1. All resistors are 1/2 W all or less unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. ◆ Denotes factory-tailored component.
5. All switches shown in off position.
6. The great bore - one who will not come to the point.
   A still greater bore - one who keeps on talking after he has made his point.

POWER SUPPLY

Dwg. No. 7 Model CXA, CXG

8

AMPLIFIER



NOTES

1. • Denotes factory tailored component.
2. All resistors 1/2 watt 10% unless otherwise specified.
3. All capacitors are in microfarads unless otherwise specified.
4. All voltages measured to ground with a Simpson 260 VOM.
5. See Parts List for component part numbers.

9

AMPLIFIER
Dwg. 8 Model CXA/CXG

ACCESSORY SPEAKERS

CL20

The Cordovox Model CL20 Leslie speaker cabinet is specifically designed for the Cordovox. To connect, simply insert the CL20 connecting plug into the external speaker jack located on the Cordovox control panel.

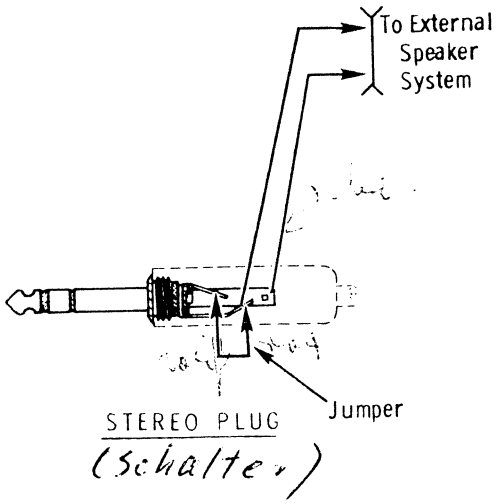
LESLIE TONE CABINETS

Instructions for connecting Leslie tone cabinets with or without an amplifier such as models 45, 47, 145 or 147 are available upon request. Write Cordovox Service Department, c/o the address listed in the parts ordering section of this manual.

EXTRA SPEAKERS

The external speaker jack can be used to connect most any type of speaker system capable of handling the high power of the Cordovox. The plug used to connect an external speaker system must be a stereo plug such as the Switchcraft #260P2, or its equivalent. Two methods of wiring this plug are shown below. Method one will allow the external speakers to sound with the Cordovox speakers. Method two will allow only the external speakers to sound.

1. EXTERNAL AND INTERNAL SPEAKER SYSTEMS



2. EXTERNAL SPEAKER SYSTEM ONLY

